

United States Patent [19]

Darms

[11] 4,239,880

[45] Dec. 16, 1980

[54] AROMATIC DIAMINES AND THEIR USE AS POLYCONDENSATION COMPONENTS FOR THE MANUFACTURE OF POLYAMIDE, POLYAMIDE-IMIDE AND POLYIMIDE POLYMERS

[75] Inventor: Roland Darms, Therwil, Switzerland

[73] Assignee: Ciba-Geigy Corporation, Ardsley, N.Y.

[21] Appl. No.: 58,340

[22] Filed: Jul. 17, 1979

Related U.S. Application Data

[60] Division of Ser. No. 963,058, Nov. 22, 1978, Pat. No. 4,196,144, which is a continuation of Ser. No. 802,922, Jun. 2, 1977, abandoned.

Foreign Application Priority Data

Jun. 15, 1976 [CH] Switzerland 7593/76

[51] Int. Cl.³ C07C 79/10; C07C 93/06; C08G 8/02

[52] U.S. Cl. 528/125; 528/28; 528/126; 528/172; 528/179; 528/180; 528/185; 568/586; 564/430

[58] Field of Search 528/125, 126, 172, 180, 528/185, 28, 179

[56]

References Cited

U.S. PATENT DOCUMENTS

3,140,316	7/1964	Towle	260/580
3,410,875	11/1968	Holub	260/346.3
3,440,215	4/1969	Holub	260/47
3,505,288	4/1970	Bodesheim et al.	260/47
3,699,075	10/1972	Lubowitz	260/49
3,705,869	12/1972	Darmory et al.	260/30.2 R
3,748,338	7/1973	Darmory et al.	260/30.2 R
3,755,449	8/1973	Ito et al.	260/571
3,758,434	9/1973	Kunzel et al.	260/30.2

FOREIGN PATENT DOCUMENTS

1537385	7/1968	France	260/571
1560940	3/1969	France	260/571
1030026	5/1966	United Kingdom	260/578

OTHER PUBLICATIONS

Arcoria et al., "Chem. Ab.", Ab. No. 31031u, (1968).

Primary Examiner—John Doll

Attorney, Agent, or Firm—Luther A. R. Hall

[57]

ABSTRACT

New polynuclear aromatic diamines, such as 2,2'-di-(p-aminophenoxy)-biphenyl, a process for their manufacture and their use as polycondensation components for the manufacture of polyamide, polyamide-imide and polyimide polymers are described. The polymers obtained with the aromatic diamines according to the invention are readily soluble and can also be processed from the melt and are distinguished by good thermal, electrical and/or mechanical properties.

7 Claims, No Drawings

2007FO-BZE05860